



ScienceTaxi Experiment Facility

start 2019

Science Taxi, under permission of



kiwi ScienceTaxi was developed by AIRBUS
Defence and Space as an experiment facility
with the intended use for research. Currently,
ScienceTaxi is dedicated for studying biology
and life science (plant, animals, microorganisms)
in a reduced gravity environment.
It can support the cultivation, stimulation and
autonomous operation of the experiments under
regulated experimental volume.





Possible ScienceTaxi microgravity platforms

ScienceTaxi FACTBOX

ScienceTaxi is the only middeck-locker sized incubator facility which will be executed in a "TAXI" mode:

- no crew time needs as the complete preparation is done on ground
- access to a greater pool of microgravity platforms
- compatible with the complete
 ScienceShell H/W portfolio
- real time HK data monitoring and commanding

Thanks to a strong network of partners kiwi is the only one to offer all types of microgravity platforms for ScienceTaxi: Parabolic Flight, Sub-Orbital, Orbital (ISS, LEO and beyond).

ScienceTaxi Experiment Facility

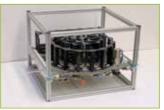


Following main features are provided currently by ScienceTaxi

- complete flight configuration will be prepared and verified on ground before launch
- 2 Middeck-Locker size incubators for flight (one identical ground incubator system)
- Experiment Platforms, with variable-g centrifuge (diameter 390 mm) and variable experiment accommodation, compatible to the incubators and to the complete Science-Shell experiment H/W portfolio
- Temperature range +4°C to +40°C
- Variable speed from 0.05 g to 2.0 g
- Fully automated processing of experiment units according pre-defined timeline

- Accommodation of up to 44 ScienceShell experiment sets
- ScienceTaxi facility generates a full set of HK Data (one packet) every 10 seconds
- Power Consumption
- Run Mode 36°C: 40 W
- Cool Mode 6°C: 50 W
- Transients 5 K/h: 80 W
- Peak: 130 W / Sleep: 20 W
- Incubator mass including Experiment Platform about 32 kg
- Real-time HK data monitoring and commanding capabilities via remote internet access







THE KIWI BENEFITS FOR OUR CUSTOMERS

- ► Lower entry cost barrier to microgravity (from 10 k €)
 (Off-the-shelf products available, standardized price lists and contracts)
- Quicker access to microgravity (from 6 months)
 (Single point of contact, wide range of experiment platforms, standardized hardware options)
- Service tailored to your needs
 (More options available: adaptation amd support to new hardware development, access to a network of experienced partners)
- Access to funding (Network of private investors and foundations, partnerships with crowdfunding organizations)



CONTACT US:

Airbus Defence and Space GmbH KIWI Team Maria Birlem, Program Manager Advanced Projects & Products On-Orbit Services and Exploration

discover@kiwi-microgravity.com phone: +49 (0)7545-8-2479 Friedrichshafen/Germany www.kiwi-microgravity.com